

# 4<sup>th</sup> International Conference on **Earth Science & Climate Change**

June 16-18, 2015 Alicante, Spain

## **Integrated planning for urban sustainability and resilience to climate change and weather extremes: Blue Green Dream's integrated interactions**

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This presentation introduces the innovative urban planning method developed by the Blue Green Dream (BGD) project which is aimed at achieving high levels of sustainability and resilience to the negative impacts of climate change and extreme weather events on urban/built environment. The Blue Green Dream approach entails harnessing the interactions between urban water infrastructure, urban green spaces and other urban ecosystems and functions to yield sustainable, resilient city systems that move from centralized water, energy and waste utilities to decentralized but integrated systems. By interlinking urban water infrastructure (blue) and urban vegetated areas (green infrastructure) systems, resource efficient, multifunctional Blue Green Solutions for supporting urban adaptation to climate change are produced. The benefits of Blue Green Solutions include; (a) resilience to droughts & floods, (b) reduction of water, air and noise pollution, (c) mitigation of the urban heat island effect, (d) increase of amenity, human health & wellbeing, (e) reduction of operational costs (lower energy & water bills), (g) enhancement of biodiversity & urban agriculture, (h) improvement of governance and reduced socio-economic problems. Key to the BGD concept is the replacement of conventional, linear urban resource flows with the BGD based, circular resource flow model, with localized recycling and generation of "new" resources.

### **Biography**

Cedo Maksimovic is an Editor in Chief of *Urban Water Journal*, (ISI) and of Urban Water Book Series published by Taylor and Francis. He has published over 420 papers and authored and edited 42 books. He is a recipient of the 2009 ICE's (Institution of Civil Engineers) Premium Prize "Telford Gold Medal" for the paper on intelligent sensors and networks. His research areas are Applied ICT in Fluid Mechanics, Hydraulics, Hydrology, Storm drainage, Urban flood modelling/prediction and risk assessment, BGD-Blue Green infrastructure, Sustainable Rehabilitation of Urban Environmental Systems, Water asset management, Urban stream rehabilitation, River Basin Management and Smart urban water systems.

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